

Claim Amendments

1-60. (canceled)

61. (original) A glass comprising:

a substantially alkali-free aluminoborosilicate glass;

said glass having the composition (in % by weight, based on oxide):

SiO ₂	> 58 - 65
B ₂ O ₃	> 6 - 11.5
Al ₂ O ₃	> 14 - 25
MgO	4 - 8
CaO	0 - 8
SrO	2.6 - < 4
BaO	0 - < 0.5
with SrO + BaO	> 3
ZnO	0.5 - 2;

said composition of said SiO₂, said B₂O₃, said Al₂O₃, said MgO, said CaO, said SrO, said BaO, said SrO + BaO, and said ZnO being selected to provide all of (i.), (ii.), (iii.), and (iv.), wherein (i.), (ii.), (iii.), and (iv.) comprise:

(i.) a coefficient of thermal expansion $\alpha_{20/300}$ of between

$2.8 \times 10^{-6}/K$ and $3.8 \times 10^{-6}/K$;

(ii.) a glass transition temperature, T_g , of more than 713 degrees Celsius to maximize heat resistance of said glass;

(iii.) a temperature at a viscosity of 10^2 dPas of at most 1694 degrees Celsius; and

(iv.) a processing temperature, V_A , at a viscosity of 10^4 dPas of at most 1273 degrees Celsius.

62. (original) The glass according to Claim 61, wherein:
said glass contains from more than 8% by weight to 11.5% by weight of B_2O_3 .

63. (original) The glass according to Claim 62, comprising all of (a.), (b.), (c.), (d.), (e.), (f.), and (g.), wherein (a.), (b.), (c.), (d.), (e.), (f.), and (g.) comprise:

(a.) one of (i.), (ii.), and (iii.):

(i.) more than 18% by weight of Al_2O_3 ;

(ii.) at least 20.5% by weight of Al_2O_3 ; and

(iii.) at least 21% by weight of Al_2O_3 ;

(b.) one of (i.) and (ii.):

(i.) a glass containing additionally (in % by weight):

ZrO_2

0 - 2

TiO ₂	0 - 2
with ZrO ₂ + TiO ₂	0 - 2
As ₂ O ₃	0 - 1.5
Sb ₂ O ₃	0 - 1.5
SnO ₂	0 - 1.5
CeO ₂	0 - 1.5
Cl ⁻	0 - 1.5
F ⁻	0 - 1.5
SO ₄ ²⁻	0 - 1.5
with As ₂ O ₃ + Sb ₂ O ₃ + SnO ₂ + CeO ₂ + Cl ⁻ + F ⁻ + SO ₄ ²⁻	0 - 1.5; and

(ii.) a glass minimized in ZrO₂, SnO₂, TiO₂, and CeO₂;

(c.) a glass in which arsenic oxide, antimony oxide, and inherent impurities are minimized;

(d.) said glass comprises a float glass;

(e.) a density, ρ , of $< 2.600 \text{ g/cm}^3$;

(f.) all of (i.), (ii.), and (iii.):

(i.) said glass is resistant to thermal shock;

(ii.) said glass has a high transparency over a broad spectral range in the visible and ultra violet ranges; and

(iii.) glass is free of bubbles, knots, inclusions, streaks,
and surface undulations; and

(g.) said glass comprises a glass substrate for a flat panel
liquid-crystal display, such as, for a laptop computer, the flat panel
liquid-display including a twisted nematic display, a supertwisted
nematic display, an active matrix liquid-crystal display, a thin film
transistor display, and a plasma addressed liquid-crystal display.

64-80. (canceled)